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with respect to **chemical reaction**, it is clear why there is no source ..... [47] reveals continual **flame speed growth**
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Large-scale dynamics in high **Reynolds** number jets and jet **flames**

the jet exit **speed** from the buoyancy- to momentum-driven. regime, we have measured the celerity for the high
Reynolds. number **flame** shown here and from this ...
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Chemical reactions in **flames**, combustion, and explosions. **...** a large portion of the total combustion time is occupied by the early **flame growth** . **...**
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Sd: **flame** displacement **speed**, velocity normal to a mean **progress** variable ... by the **Karlovitz** number Kaη based on the product of the **chemical reaction** time ...
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on the global behaviour of **flame** displacement **speed** were .... type **chemical reaction**, and a single **reaction progress** var- ..... **Karlovitz** number, Ka = s ...
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Study on dynamical behavior of turbulent premixed V-**flames**
increase the **flame** sheet area and thus increase **flame. speed** and overall **reaction** rate. However, Damkohler's. analysis is not complete. **Karlovitz** t2] showed ...
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Numerical Simulation of Swirl-Stabilized Premixed **Flames** With a ...
Chemical reaction is considered with a global 6-step **reaction** mechanism which was .... It can be seen that turbulent **flame speed** is increased and the **flame** ...
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JSTOR: Some Applications of Kolmogorov's Turbulence Research in ...
Chemical reaction in a given premixed combustible mixture may be characterized, ... number **flames** avoid quenching, even at very high **Karlovitz** numbers, ...
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teristic **chemical reaction** time and the characteristic flow time, to some extent, especially for ..... might be affected by the **progress** rate of **flame** ...
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Combustion -- CFD-Wiki, the free CFD reference
Chemical reaction can occur everywhere and this **flame** can propagate ..... It shows that, even with a small **Karlovitz** number, the turbulence effect is not ...
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Scalar dissipation, diffusion and dilatation in turbulent H –air ...

Laminar **flame speed**. t. Time, also normalized time. T. Absolute temperature. u. Velocity vector. u. Streamwise velocity. ρW. Mass **reaction** rate ...
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Some of the work also assumed a constant **density flame** model. ... The calculated **turbulent flame** speed agrees
with the wrinkled **laminar flame** model and ...
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density in combustion: ... are the **density** of unburned and burned gas, T .... [A.1] **Laminar** and **Turbulent Flame**
Propagation in H ...
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A **flame propagation** modeling method is provided to accommodate a variety of ... **density** in terms of at least one
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constant-**density** TC flow was not possible ...
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Premixed **Turbulent Flame Propagation**.
A three-fold increase in the **density** weighted **turbulent** kinetic energy across the ... **turbulence** than the
turbulence intensity to **laminar flame** speed ratio.
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premixed. **flame**. **propagation**. using. a **laminar**. flamelet. model. By. H. G. lm. 1. Motivation. and. objectives. The
laminar. flamelet. concept. in **turbulent** ...
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Computation of the transition to **turbulence** and **flame propagation** ...

flame propagation are calculated after this initial flow. The computational particulars are **...** **laminar** burning velocity. II t. **turbulent** burning velocity **...**
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Theory of premixed-**flame propagation** in large-scale **turbulence**

Premixed-jlame **propagation** in **turbulence**. 593. where uL is the **laminar-flame** velocity while d. =. h/(uLpcp) and. tL. =. d/uL are the. **laminar-flame ...**
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An offsetting effect from the second contribution, **laminar-flame propagation**, is responsible for producing the time-independent thickness of the **turbulent ...**
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T Poinsot, S Candel, A Trouvé - Progress in Energy and Combustion Science, 1995 - Elsevier
... T. - T,Yr, Vortex size **Turbulent Reynolds** number Re ... curvature of flame front Unstretched
laminar flame speed ... consumption speed of flamelets Reduced **time** tC = t/r ...
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... as **turbulence** intensities (4 u /U 9%), **turbulent Reynolds** number (36 ... speed normal-
ized by the **laminar** flame speed ... is governed by the isotropic **turbulent** flow. ...
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[PDF] Modeling **turbulent** flame propagation
WT Ashurst - Conference: 25. combustion symposium, Irvine, CA (United ..., 1994 - osti.gov
... particles within a **turbulent** flow. Yeung & Pope [23] computed trajectories of
Lagrangian ... zero in 2.2 Kolmogorov **time** units, independent of **Reynolds** number. ...
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... Flame Motion in a Pancake Chamber via a Lagrangian, Two-Dimensional Vortex Dynamics **Simulation** - all 2 versions »
WT Ashurst - Combustion Science and Technology, 1995 - informaworld.com
... **TURBULENT** FLAME MOTION 237 hydrodynamic instability of **laminar** combustion (Zeldovich,
1981 ... The so-called ignition delay period, the **time** from spark to noticable ...
Cited by 4 - Related Articles - Web Search - BL Direct

Partially-premixed combustion during auto-ignition of a **turbulent** nonpremixed flame
R Hilbert, D Thevenin, L Vervisch - Direct and Large-Eddy **Simulation**—IV, 2001 - books.google.com
... 0.50 ms and the integral- scale **turbulent Reynolds** number is ... fteldl U - Periodicüy
Figure 1: **Turbulent** double-fla ... 3. Auto-ignition in a **laminar** flow La minar ...
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AS Palipana - Proceedings of the 1998 International Joint Power Generation ..., 1998 - American Society of Mechanical Engineers
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Numerical and Experimental Studies of Flame Propagation Through a Grid

BH Hjertager, T Solberg, JE Forrisdahl - Dynamic Aspects of Explosion Phenomena, 1993 - books.google.com

... a quasilaminar combustion model for low **Reynolds** numbers. ... wake of the igniter bar,
where **laminar** combustion is ... BH, and Bakke, JR,'**Turbulent** Flame Propagations ...
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JF Griffiths, JA Barnard - 1995 - books.google.com

... Re **Reynolds** number RON Research octane number ... Burning velocity with respect to unburned
gas SI **Laminar** burning velocity S t **Turbulent** burning velocity ...
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PS Barsanti, KNC Bray, RS Cant - Dynamics of Exothermicity: In Honor of Antoni Kazimierz ..., 1996 - books.google.com

... six for **Reynolds** stress, three for **Reynolds** flux and ... MODELLING OF CONFINED **TURBULENT**
EXPLOSIONS 31 which ... or from pre- constituted **laminar** flamelet libraries ...
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WT Ashurst - Combustion Science and Technology, 1996 - informaworld.com

... The apparent **Reynolds** number, R r, used to ... They conducted **laminar** flame studies within
rotating cylinders ... to an engine piston-cylinderat the ignition **time**. ...
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flow. It is a general notion that the **laminar** flame front. This work will be useful for exploring **turbulent** com-. bustion characteristics and the **modelling ...**
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Combustion Science (J. D. Buckmaster and T. ...
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The G-equation **model** is used to describe premixed **flame propagation**. .... the **flame** surface **density** concept to describe nonpremixed **turbulent combustion**. **...**
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wherein the **turbulent Reynolds** number is defined as: R e =u'L/V (2). wherein u' represents the **turbulent** intensity, S L represents the **laminar** flame speed, ...
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